FY 2011 - FY 2015 WATER SYSTEMS CAPITAL INVESTMENT PLAN

-The Water Management Department is in the process of developing a Regional Integrated Water Resources Plan (IWRP). The plan will provide the City of Franklin a "road map" for making investments to improve water resources with a focus on sustainability and consideration of regional goals and partnerships.

While some of the projects presented in this section have been incorporated into the IWRP, this CIP is not inclusive of all of the projects being considered with the IWRP process.

Project	Category	Status	Fund	Secured Funding Offset	P	rior Years	2011	2012	2013	2014	2015	Total		otential ding Offset
Downs Boulevard Water Transmission Main	Construction	Active	Water Access	5 -	5	- 5	1.978,090 \$	- 5	- 5	- 5	- 5	1,978,090	5	
Downs Boulevard Water Transmission Main	Design	Complete	Water Access	5 0	5	275,000 5	- 5	- 5	- 5	- 5	- 5	275,000	5	7.5
Hillsboro Road Water Line Relocation	Design	Active	Water Access	5 -	5	134,884 5	8,376 5	- 5	- 5	- 5	- 5	143,260		-
Hillsboro Road Water Line Replacement and			-0000000000000000000000000000000000000		-	140/120-								
Upgrades	Construction	Active	Water Access	5 =	5	- 5	- 5	- 5	+ 5	- 5	- 5	3.5	5	1.0
Southeast Corridor Water System	SUPPLIES THE SECOND SEC	Constitution	COMPORTATIONS OF	45	60	MIN POPPLIN 1977	eventuros no e							
Improvements	Construction	Active	Water Access	5 -	-5	312,995 \$	590,180 5	- 5	- 5	- 5	- 5	903,175	5	
Southeast Corridor Water System												127,007,77		
Improvements	Design	Active	Water Access	5 -	S	230,655 \$	4,745 5	+ 5	- 5	+ S	- 5	235,400	5	
11th Avenue and Park Street Water Line	Construction	Concept	Water Rate Funded Capital	s -	ŝ	. 5	- 5	125,000 \$. 5	- 5	- 5	125,000	5	
11th Avenue and Park Street Water Line	Design	Concept	Water Rate Funded Capital	s -	ŝ	- \$	- 5	15,000 \$	- 5	- 5	+ 5	15,000	5	-
Advanced Metering Infrastructure	Construction	Concept	Water Rate Funded Capital	5 -	Ś	. 5	. 5	500,000 5	1,500,000 \$	1,500,000 5	+ 5	3,500,000	5	+
Ash Drive Tank Access Hoad Repaying for Ash Drive, Cord Lane, Carters Creek,		20000		2		190	\$225 × 50	- 64	95	12	100	13857-17	723	9000000
Grassland and Long Lane Water Reservoirs Water Treatment Plant Driveway and	Construction	Concept	Water Rate Funded Capital	-	5	- 5	20,764 5	- 5	- 5	- 5	- 5	20,764	5	(19,726)
Parking Repairs	Construction	Concept	Water Rate Funded Capital	5 -	5	- 5	- \$	40,000 \$	- 5	- 5	- 5	40,000	5	
Automatic Flushing Devices	Construction	Concept	Water Rate Funded Capital	5 -	5	- 5	- 5	- 5	25,000 5	25,000 5	25,000 5	75,000	5	199
Bobby Drive Dead End Elimination	Design	Concept	Water Rate Funded Capital	5 -	5	- 5	- 5	- 5	- 5	15,000 5	- 5	15,000	5	+
Bobby Drive Dead End Elimination	Construction	Concept	Water Rate Funded Capital	5 -	5	- 5	- 5	- 5	- 5	- 5	140,000 5	140,000	5	
Buckworth Water Line Replacement	Design	Concept	Water Rate Funded Capital	5	5	- 5	6,000 5	+ 5	- 5	- 5	- 5	6,000	5	
Buckworth Water Line Replacement	Construction	Concept	Water Rate Funded Capital	5 -	5	- 5	- 5	50,000 5	- 5	- 5	- 5	50,000	5	(F)
Carter Street, Mulberry Street, Strahl Street Water Carter Street, Mulberry Street, Strahl Street	Construction	Active	Water Rate Funded Capital	5 -	5	123,840 5	93,253 5	- 5	+ 5	- 5	- 5	217,093	5	-
Water	Design	Active	Water Rate Funded Capital	5	5	39,253 5	5,747 5	- 5	- 5	- 5	- 5	45,000	5	
Forrest Street Water Line Replacement	Design	Concept	Water Rate Funded Capital		5	- 5	- 5	5,000 \$	- 5	- 5	- 5	5,000		-
Forrest Street Water Line Replacement	Construction	Concept	Water Rate Funded Capital		5	. 5	. 5	45,000 5	. s	. 5	. 5	45,000	ON.	
Harpeth River Low Head Dam and Flow					_							200000		
Monitoring Project Did Carters Creek Pike Water Line	Construction	Design	Water Rate Funded Capital	\$ (350,000)	5	- 5	500,000 5	600,000 \$	- 5	- 5	- 5	750,000	\$	(250,000)
Replacement	Design	Concept	Water Rate Funded Capital	5 .	\$	- 5	- 5	25,000 \$	- 5	+ 5	- 5	25,000	\$	
Old Carters Creek Pike Water Line Replacement	Construction	Concept	Water Rate Funded Capital	5 -	5	- 5	- 5	175,000 5	- 5	- 5	- 5	175,000	5	-
Water System Replacement and Rehabilitation	Design	Concept	Water Rate Funded Capital	5 .	\$	- 5	1,100,000 5	1,155,000 \$	1,212,750 5	1,273,388 \$	1,337,057 5	6,078,194	5	- +
Water SCADA Improvements	Equipment	Concept	Water Rate Funded Capital	5	5	- 5	- 5	100,000 5	100,000 5	100,000 \$	- 5	300,000	5	
Adams Street Water Line Replacement	Design	Concept	Water Rate Funded Capital	5 -	5	- 5	- 5	- 5	- 5	- 5	30,000 5	30,000	5	
Adams Street Water Line Replacement	Construction	Concept	Water Rate Funded Capital	5	5	- 5	- 5	- 5	- 5	- 5	250,000 5	250,000	5	3
Raw Water Reservoir Rehabilitation	Construction	Active	Water Rate Funded Capital	5 (1,000,000)	5	2,311,878 5	1,584,922 \$	- 5	- 5	- 5	- 5	2,896,800	5	
Raw Water Reservoir Rehabilitation	Construction Services	Active	Water Rate Funded Capital	5	5	36,679 \$	146,921 5	- 5	- 5	- 5	- 5	183,600	\$	-

Raw Water Reservoir Rehabilitation

Department Division:

Water Treatment

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2009

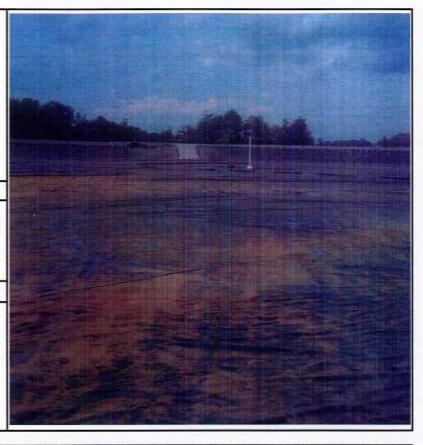
Estimated Date of Completion:

FY 2011

Description:

Rehabilitation of the raw water reservoir consisting of excavation to approximately 110 million gallon capacity and installation of an engineered liner to mitigate leaking issues

Will Impact Operating Budget	Annual Cost/(Sa	avings)
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
And the second of the second o	Capital	0
	Other	0
	Total	0



EXPENDITURES	TO VALUE	Prior Years	1.	FY 2011	Н	FY 2012	100	FY 2013	FY 2014	FY 2015	Totals
Construction Services	\$	-	\$	-	\$	-	\$	-	\$ - \$	-	\$
Engineering	\$	36,679	\$	146,921	\$	-	\$	2	\$ - \$	72	\$ 183,600
Construction / Improvements	\$	2,311,878	\$	1,584,922	\$	+ /-	\$	2	\$ - \$	- 2	\$ 3,896,800
Equipment	\$	-	\$	=	\$		\$		\$ - \$	197	\$ = 5
Furnishings	\$		\$	-	\$	-	\$		\$ - \$	-	\$ -
Utility Relocation	\$	-	\$	-	\$	1.5	\$		\$ - \$	2.5	\$
TOTAL	\$	2,348,557	\$	1,731,843	\$		\$	-	\$ - \$) =	\$ 4,080,400

REVENUES	Prior Years	FY 2011	FY 2012	1	FY 2013	U	FY 2014	FY 2015	113	Totals
Water Rate Funded Capital	\$ 2,348,557	\$ 731,843	\$	\$	1	\$	- \$	-	\$ 3,0	080,400
Bond Fund	\$ 	\$	\$ 72	\$	ш.	\$	- \$	N21	\$	
Taps	\$ 8	\$ 3	\$	\$	9 8	\$	- \$		\$	-
Access	\$	\$	\$	\$	- 1	\$	- \$	-	\$	-
SRF Loan - ARRA Forgiveness	\$ -	\$ 1,000,000	\$ 	\$		\$	- \$		\$ 1.0	000,000
TOTAL	\$ 2,348,557	\$ 1,731,843	\$	\$	=	\$	- \$	1.00	\$ 4,0	080,400

Adams Street Water Line Replacement

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2015

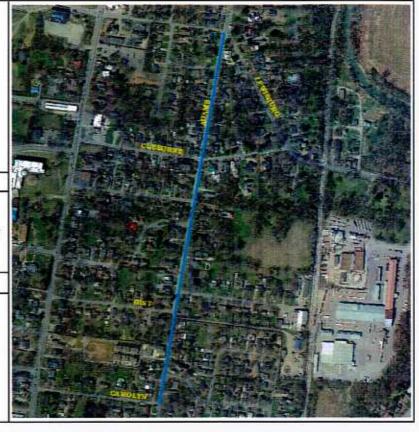
Estimated Date of Completion:

FY 2015

Description:

Replace approximately 2,900 feet of various sized water distribution line on Adams Street from Carolyn Avenue to Lewisburg Pike. Existing infrastructure is aging and area requires improvements to water pressure and fire flow. Project will also positively affect water quality

Will Impact Operating Budget	Annual Cost/(S	Savings)
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	or Years	5	FY 2011	100	FY 2012	FY 2013	FY 2014	FY 2015		Totals
Construction Services	\$	54	\$		\$	-	\$ -	\$ -	\$ -	\$	=
Engineering	\$	23	\$	2	\$		\$ 2	\$ <u> </u>	\$ 30,000	\$	30,000
Construction / Improvements	\$		\$		\$	17/27	\$	\$ -	\$ 250,000	\$	250,000
Equipment	\$	-	\$	-	\$	-	\$ -	\$	\$	5	-
Furnishings	\$	-	\$	-	\$		\$	\$ -	\$ 1.5	\$	-
Utility Relocation	\$	-	\$		\$		\$ 	\$ -	\$ 850	\$	-
TOTAL	\$	-	\$	-	\$	39#3	\$ -	\$	\$ 280,000	\$	280,000

REVENUES	Pric	or Years	5	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015		Totals
Water Rate Funded Capital	\$	49	\$	-	\$ 72	\$ 2	\$ -	\$ 280,000	\$	280,000
Bond Fund	\$	4	\$	2	\$	\$ 3	\$ 2	\$ 12	\$	±
Taps	\$	11-0 220	\$	9	\$ 122	\$ 2	\$ 3	\$ 92	\$	_
Access	\$	-	\$	-	\$ -	\$ -	\$ <u> </u>	\$	5	-
SRF Loan - ARRA Forgiveness	\$	-	\$	-	\$ -	\$ -	\$	\$ -	\$	
TOTAL	\$	51	\$	-	\$	\$ 	\$ 	\$ 280,000	\$	280,000

Water SCADA Improvements

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2012

Estimated Date of Completion:

FY 2014

Description:

Replace or upgrade existing SCADA system. Existing system is outdated and replacement equipment is no longer being manufactured. SCADA is necessary to adequately monitor and operate the distribution system finished water reservoirs (7), HVUD supply points (2), water booster stations (3 intended to be operated/monitored with SCADA, 5 stations total).

Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	or Years	S	FY 2011	FY 2012	-	FY 2013	FY 2014	FY 2015	1	Totals
Construction Services	\$	-	\$	-	\$ -	\$	-	\$ 	\$	\$	-
Engineering	\$	2	\$	2	\$ -	\$	2	\$	\$ 172	\$	2
Construction / Improvements	\$	-	\$		\$ 100,000	\$	100,000	\$ 100,000	\$ 0.20	\$	300,000
Equipment	\$	-	\$	-	\$ 145	\$		\$ -	\$ 0.72	\$	-
Furnishings	\$	-	\$		\$	\$	-	\$	\$ 	\$	-
Utility Relocation	\$	-	\$	-	\$ 0.50	\$	*	\$ -	\$ 2.50	\$	-
TOTAL	\$	+	\$	-	\$ 100,000	\$	100,000	\$ 100,000	\$	\$	300,000

REVENUES	Pric	or Years	5	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	50	Totals
Water Rate Funded Capital	\$	-	\$	-	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$	300,000
Bond Fund	\$	27	\$	2	\$	\$	\$	\$ 12	\$	
Taps	\$	- 3	\$	-	\$	\$ -	\$ 	\$ -	\$	=
Access	\$	=	\$	-	\$	\$ -	\$ -	\$ 	\$	
SRF Loan - ARRA Forgiveness	\$	7	\$	-	\$	\$.=	\$ -	\$ -	\$	-
TOTAL	\$		\$	-	\$ 100,000	\$ 100,000	\$ 100,000	\$ 15	\$	300,000

Project Name: Water System Replacement and

Rehabilitation

Department Division: Water Distribution and Treatment

Project Number:

Project Fund: Water Rate Funded Capital

Estimated Start Date: FY 2011

Estimated Date of Completion: Ongoing

Description:

Rate Funded Capital rehabilitation and replacement projects to maintain existing infrastructure. This CIP is intended to provide for ongoing replacement and rehabilitation of existing infrastructure. The Water Management Department is performing a condition assessment of infrastructure to help prioritize long term rehabilitation and replacement needs. Specific projects from this effort will be incorporated in future CIPs.

Impact on Operating Budget: Will Impact Operating Budget Annual Cost/(Savings) Will Not Impact Operating Budget Personnel 0 Number of Positions Operations 0 Capital 0 Other 0 Total 0



EXPENDITURES	Pric	or Years	FY 2011		FY 2012		FY 2013		FY 2014	FY 2015	3	Totals
Construction Services	\$	-	\$ - 2	5	-	\$	-	\$	-	\$	\$	-
Engineering	\$	4	\$ 4	\$	-	\$	- 2	\$	-	\$ -	\$	2
Construction / Improvements	\$	-	\$ 1,100,000	\$1,	155,000	\$1	,212,750	\$	1,273,388	\$ 1,337,057	\$	6,078,194
Equipment	\$	-	\$ 	5		\$		\$	-	\$ P-2	\$	-
Furnishings	\$	-	\$ -	\$		\$	- 2	\$	-	\$ 	\$	-
Utility Relocation	\$	-	\$ П	\$		\$	-	5	-	\$ -	\$	-
TOTAL	\$	-	\$ 1,100,000	\$1,	155,000	\$1	,212,750	\$	1,273,388	\$ 1,337,057	\$	6,078,194

REVENUES	Pri	or Years	FY 2011		FY 2012	F	Y 2013	F	Y 2014	1	Y 2015		Totals
Water Rate Funded Capital	\$		\$ 1,100,000	\$1,1	55,000	\$1,21	2,750	\$1,2	73,388	\$1,3	37,057	\$ 6,	078,194
Bond Fund	\$	2	\$	\$	•	\$	-	\$	Ī	\$	-	\$	-
Taps	\$	-	\$ 12	\$	-	\$	12	\$	2	\$	-	\$	
Access	\$	3	\$ -	\$	-	\$	-	\$	2	\$	-	\$	
SRF Loan - ARRA Forgiveness	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-
TOTAL	\$	-	\$ 1,100,000	\$1,1	55,000	\$1,21	2,750	\$1,2	73,388	\$1,3	37,057	\$ 6,	078,194

Old Carters Creek Pike Water Line

Replacement

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2012

Estimated Date of Completion:

FY 2012

Description:

Replace 6" and 8" water main with 4" and 6" water main. Existing infrastructure is aging and has a high chlorine demand. Replacement will improve quality and pressure in the area.

Impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
100 - 100 -	Capital	0
12	Other	0
	Total	0



EXPENDITURES	Pri	or Years	5	FY 2011	FY 2012		FY 2013	FY 2014	FY 2015	Totals
Construction Services	\$	7+0	\$	-	\$	\$	-	\$ -	\$ (4)	\$ -
Engineering	\$	-	\$	12	\$ 25,000	\$	<u>_</u>	\$ 2	\$ 12	\$ 25,000
Construction / Improvements	\$	2	\$	- 2	\$ 175,000	\$		\$ 2	\$ 145	\$ 175,000
Equipment	\$	-	\$	-	\$ 	\$	2	\$ 0	\$ 2.2	\$ ANALYSIS HE OFFICE
Furnishings	\$	-	\$	-	\$ -	\$	2	\$ -	\$ -	\$
Utility Relocation	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -
TOTAL	\$	-	\$	-	\$ 200,000	5		\$	\$	\$ 200,000

REVENUES	Pri	or Years	5	FY 2011	FY 2012		FY 2013	FY 2014	FY 2015		Totals
Water Rate Funded Capital	\$	-	\$	-	\$ 200,000	\$	*	\$ -	\$	\$	200,000
Bond Fund	\$	_	\$	-	\$	5	2	\$ 2	\$ 20	\$	
Taps	\$	12	\$	12	\$ <u> </u>	\$	2	\$ 2	\$ 2	\$	12
Access	\$		\$	2	\$ 5	\$	2	\$ 2	\$	\$	2
SRF Loan - ARRA Forgiveness	\$	-	\$	-	\$ -	\$		\$	\$ -	S	
TOTAL	\$	-	\$	-	\$ 200,000	\$		\$ 	\$	\$	200,000

Forrest Street Water Line Replacement

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2012

Estimated Date of Completion:

FY 2012

Description:

Replace 2" galvanized line with 900 feet of 6" ductile iron pipe. Project will improve water pressure, quality and fire protection.

impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	r Years	;	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Totals
Construction Services	\$	-	\$	123	\$ -	\$ 1	\$ -	\$ - 2	\$ =
Engineering	\$	2	\$	<i>1</i> <u>2</u>	\$ 5,000	\$ 1 2	\$	\$ -	\$ 5,000
Construction / Improvements	\$		\$	-	\$ 45,000	\$ 9 9	\$ -	\$ 7-	\$ 45,000
Equipment	\$	-	\$		\$ 1.5	\$ -	\$	\$	\$ •
Furnishings	\$	-	\$	- 17	\$ -	\$ -	\$ -	\$	\$ -
Utility Relocation	\$	-	\$		\$ -	\$: a 8	\$ 	\$ 3.52	\$ -
TOTAL	\$	×	\$	-	\$ 50,000	\$ ÷ 5	\$ *	\$ 	\$ 50,000

REVENUES	Pric	or Years	5	FY 2011	FY 2012	100	FY 2013	FY 2014	FY 2015	Totals
Water Rate Funded Capital	\$	_	\$	2	\$ 50,000	\$	2	\$ Ş	\$ -	\$ 50,000
Bond Fund	\$	20	\$	2	\$ 1000 CO 075 TO	\$	12	\$ -	\$ 123	\$ 2
Taps	\$	-	\$	- 2	\$ - 8	\$	-	\$ <u>=</u>	\$ 2	\$ 2
Access	\$		\$	-	\$ -	\$	15	\$ -	\$	\$ •
SRF Loan - ARRA Forgiveness	\$	-	\$	15	\$ 5.5	\$		\$ -	\$	\$ -
TOTAL	\$	-	\$	-	\$ 50,000	\$		\$ 	\$ •	\$ 50,000

Carter Street, Mulberry Street, Strahl Street

Water

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2010

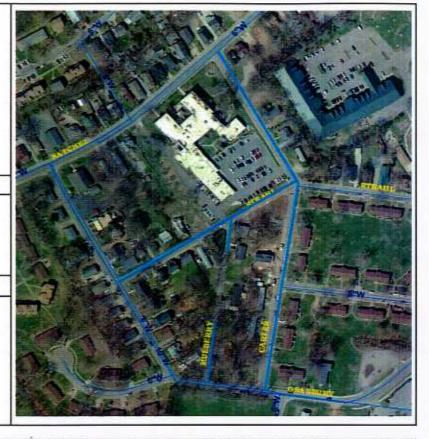
Estimated Date of Completion:

FY 2011

Description:

Replace aging infrastructure and to improve distribution capability

Impact on	Operating Budget:	
☐ Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	F	rior Years	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015		Totals
Construction Services	\$	-	\$ -	\$	\$ 	\$ -	\$ -	\$	
Engineering	\$	39,253	\$ 5,747	\$ 1.2	\$ - 4	\$ 9	\$ -	\$	45,000
Construction / Improvements	\$	123,840	\$ 93,253	\$ 	\$ -	\$ -	\$ 5.73	\$	217,093
Equipment	\$	-	\$	\$ -	\$ -	\$	\$	5	-
Furnishings	\$	-	\$ -	\$	\$ -	\$ -	\$	5	-
Utility Relocation	\$		\$	\$ 	\$	\$ -	\$ 1.60	\$	-
TOTAL	\$	163,093	\$ 99,000	\$ -	\$ -	\$ -	\$	\$	262,093

REVENUES	F	rior Years	É	FY 2011	FY 2012		FY 2013	FY 2014	FY 2015	Totals
Water Rate Funded Capital	\$	163,093	\$	99,000	\$	\$	-	\$ -	\$ - \$	262,093
Bond Fund	\$		\$	-	\$ -	\$	2	\$ 2	\$ - S	
Taps	\$	-	\$	-	\$ -	5		\$ -	\$ - \$	
Access	\$		\$	-	\$ -	\$		\$	\$ - \$	=
SRF Loan - ARRA Forgiveness	\$	-	S		\$ -	\$	15	\$	\$ - \$	-
TOTAL	\$	163,093	\$	99,000	\$ - 6	\$	18	\$	\$ - \$	262,093

Buckworth Water Line Replacement

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2011

Estimated Date of Completion:

FY 2012

Description:

Replace existing 6" transite line with 6" ductile iron pipe. The existing line is subject to breaking. Pipe material is obsolete making repairs difficult. Project anticipated to be designed and constructed with City staff.

Import on Occuption Budgets

Impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	or Years	5	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015		Totals
Construction Services	\$		\$		\$ -	\$ 1	\$ -	\$ 	\$	-
Engineering	\$	=	\$	6,000	\$ 72	\$ 2	\$ 2	\$	\$	6,000
Construction / Improvements	\$	2	\$	4	\$ 50,000	\$ - 1	\$	\$ -	\$	50,000
Equipment	\$	2	\$		\$	\$	\$ 	\$	\$	X-00-XIII AND STATE
Furnishings	\$	-	\$		\$ -	\$ 7.7	\$ -	\$ 0.70	5	-
Utility Relocation	\$	-	\$		\$ -	\$ 	\$ -	\$ 	\$	-
TOTAL	\$	*	\$	6,000	\$ 50,000	\$ -	\$ 	\$ 5+2	\$	56,000

REVENUES	Pric	or Years	S	FY 2011		FY 2012	FY 2013	2	FY 2014	FY 2015	Totals
Water Rate Funded Capital	\$. *	\$	6,000	5	50,000	\$ -	\$	-	\$ 7.65	\$ 56,000
Bond Fund	\$	2	\$	4	\$	1.0	\$ -	\$	-	\$ 700	\$
Taps	\$	22	\$	- 2	\$	1723	\$ 2	5	₩.	\$ 1726	\$ 1
Access	\$	-	\$		\$		\$	\$		\$	\$
SRF Loan - ARRA Forgiveness	\$	_	\$		\$		\$ 	\$	-	\$ -	\$
TOTAL	\$	-	\$	6,000	\$	50,000	\$ -	\$	-	\$	\$ 56,000

Project Name: Bobby Drive Dead End Elimination

Department Division: Water Distribution

Project Number:

Project Fund: Water Rate Funded Capital

Estimated Start Date: FY 2014
Estimated Date of Completion: FY 2015

Description:

Replace existing 2" and 4" line with 8" ductile iron pipe. The project will provide a secondary feed to the area and improve water quality, pressure, volume and subsequently fire flows. The work will be conducted on Bobby Drive from Hillsboro Road to Overlook Drive.

Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
(F)	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pri	or Years	FY 2011	FY 2012	FY 2013	FY	2014	FY 2015	Totals
Construction Services	\$		\$	\$ -	\$ - 5	5		\$	\$ -
Engineering	\$	=	\$ 14	\$ 160	\$ - 5	15	5,000	\$ 1.0	\$ 15,000
Construction / Improvements	\$	-	\$ - 4	\$ 10.45	\$ - 5	5	-	\$ 140,000	\$ 140,000
Equipment	\$	2	\$ 2	\$ 2	\$ - 5	5	9	\$ William San	\$
Furnishings	\$		\$	\$ -	\$ 5	5	-	\$ -	\$ 4
Utility Relocation	\$	-	\$ -	\$ -	\$ - 5	5	-3	\$ 	\$
TOTAL	\$		\$ -	\$ -	\$ - \$	15	5,000	\$ 140,000	\$ 155,000

REVENUES	Pri	or Years	5	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Totals
Water Rate Funded Capital	\$	-	\$	-	\$	\$	\$ 15,000	\$ 140,000	\$ 155,000
Bond Fund	\$	₩.	\$	-	\$ 14.5	\$	\$ -	\$ -	\$ ~ =
Taps	\$	<u> </u>	\$	92	\$ 123	\$ -	\$ <u>_</u>	\$ 245	\$
Access	\$	~	\$	- 2	\$ 1.2	\$ - E	\$ ತ	\$ 1.0	\$ 알
SRF Loan - ARRA Forgiveness	\$		\$		\$ -	\$ 1	\$ 	\$ 72	\$
TOTAL	\$		\$		\$ 	\$	\$ 15,000	\$ 140,000	\$ 155,000

Automatic Flushing Devices

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2013

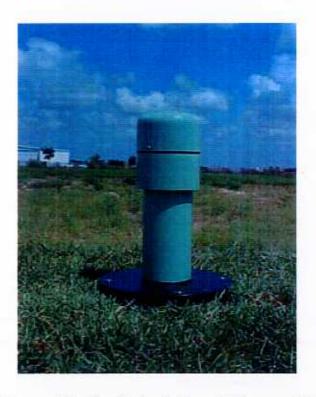
Estimated Date of Completion:

FY 2015

Description:

Install automatic flushing devices in locations subject to high water age system modeling. Devices flow water on a scheduled basis. Image presented is courtesy of www.hydro-guard.com and is intended to provide an example only. Unit cost is approimately \$3,200 plus installation. Installation intended to be accomplished with City staff. The devices will affect operating budget based on the amount of water flushed, however this is being performed through hydrant flushing presently.

Impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



Hydroguard Flushing Device for Example Purposes Only

EXPENDITURES	Pric	or Years	FY 2011	FY 2012	FY 2013	FY 2014	4	FY 2015	2	Totals
Construction Services	\$	-	\$ -2	\$ *	\$ 2	\$ -	\$	(W)	\$	-
Engineering	\$	#	\$ _	\$ -	\$ 2	\$ -	\$	-	\$	-
Construction / Improvements	\$	21	\$ 5	\$ 1/2	\$ 	\$ _	\$	0920	\$	2
Equipment	\$	-	\$ -	\$	\$ 25,000	\$ 25,000	5	25,000	\$	75,000
Furnishings	\$	-	\$	\$	\$ -	\$ -	\$	10.7	\$	-
Utility Relocation	\$	-	\$ -	\$	\$ -	\$ =	\$		\$	-
TOTAL	\$	*	\$ -	\$ 	\$ 25,000	\$ 25,000	\$	25,000	\$	75,000

REVENUES	Pri	or Years	5	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Totals
Water Rate Funded Capital	\$	2	\$	12	\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ 75,000
Bond Fund	\$	2	\$	12	\$ 12	\$	\$	\$ -	\$
Taps	\$	20	\$	12	\$ 6.20	\$ 2	\$ 9	\$ - 2	\$ 9
Access	\$		\$	-	\$	\$ 2	\$ -	\$ -	\$ 2 1
SRF Loan - ARRA Forgiveness	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$	-	\$	**	\$ 	\$ 25,000	\$ 25,000	\$ 25,000	\$ 75,000

Water Treatment Plant Driveway and Parking

Repairs

Department Division:

Water Treatment

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2012

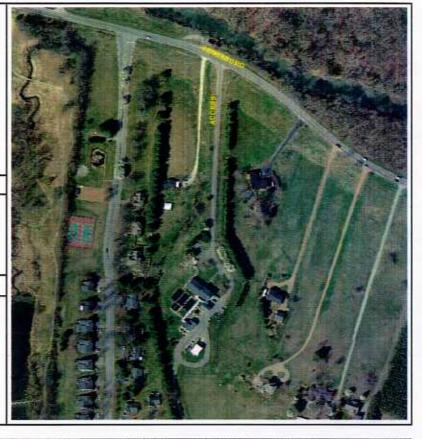
Estimated Date of Completion:

FY 2012

Description:

Replace existing driveway and parking areas. Surfaces are aging and subjected to extended period of flooding and construction traffic

Impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	or Years	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	-	Totals
Construction Services	\$		\$. 5	\$	\$	\$ -	\$	\$	-
Engineering	\$	+	\$ ĕ	\$ 	\$ 	\$ -	\$	\$	-
Construction / Improvements	\$	-	\$ +	\$ 40,000	\$ -	\$ -	\$ (2)	\$	40,000
Equipment	\$	-	\$ 2	\$	\$ -	\$	\$ 2.43	\$	
Furnishings	\$	21	\$ 12	\$ -	\$ 	\$ 8	\$ -	\$	-
Utility Relocation	\$		\$	\$	\$ 	\$ ě	\$	\$	
TOTAL	\$	- 5	\$ -	\$ 40,000	\$ -	\$ 	\$ 	\$	40,000

REVENUES	Pric	r Years	5	FY 2011	FY 2012	FY 2013	FY 2014		FY 2015	Totals
Water Rate Funded Capital	\$	-	\$	(+	\$ 40,000	\$ *	\$ -	\$		\$ 40,000
Bond Fund	\$	-	\$:#	\$	\$ · ·	\$ -	\$	300	\$ -
Taps	\$	-	\$	14	\$	\$ 	\$ -	\$	1.0	\$ -
Access	\$		\$	2	\$ 7.0	\$ 2	\$ -	5	-	\$
SRF Loan - ARRA Forgiveness	\$	2	\$	€	\$ -	\$ 2	\$ 2	5	-	\$
TOTAL	\$	9	\$		\$ 40,000	\$ 	\$ <u> </u>	\$	72	\$ 40,000

Ash Drive Tank Access Road Repaving for Ash Drive, Project Name:

Curd Lane, Carters Creek, Grassland and Long Lane

Water Reservoirs

Department Division: Water Distribution

Project Number:

Project Fund: Water Rate Funded Capital

Estimated Start Date: FY 2011

Estimated Date of Completion: FY 2011

Description:

Improve access roads to finished water reservoirs from damage caused by May 1-2, 2010 storm. These repairs are likely to be covered through FEMA at 95%.

Impact on	Operating Budget:	
─ Will Impact Operating Budget	Annual Cost/(Sa	avings)
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pri	or Years	5	FY 2011	FY 2012		FY 2013	FY 2014	FY 2015	Totals
Construction Services	\$		\$		\$	\$	- :	\$ -	\$ -	\$
Engineering	\$	-	\$	-	\$ 	\$	- :	\$ -	\$	\$
Construction / Improvements	\$	2	\$	20,764	\$ 11.40	\$:	\$ 2	\$ 2.43	\$ 20,764
Equipment	\$	2	\$		\$ 2	\$	- :	\$ 2	\$	\$ -
Furnishings	\$	_	\$	- 1	\$ _	\$	3	\$ 	\$	\$ 2
Utility Relocation	\$	-	5		\$ -	S	:	\$ -	\$ 	\$
TOTAL	\$	-	\$	20,764	\$ -	\$	- 3	\$ - 5	\$	\$ 20,764

REVENUES	Pric	or Years	S	FY 2011		FY 2012	9	FY 2013	FY 2014	FY 2015	-	Totals
Water Rate Funded Capital	\$	-	\$		\$		\$	*	\$ *	\$ 	\$	-
Bond Fund	\$	9	\$	14	\$	23	\$	-	\$ ¥	\$ -	\$	-
Taps	\$	4	\$	-	\$	20	\$	12	\$ 32	\$ 2:	\$	2
Access	\$	4	\$	20,764	\$	23	\$	2	\$ 2	\$ 20	\$	20,764
SRF Loan - ARRA Forgiveness	\$	- 2	\$		\$	2	\$	- 1	\$ 	\$ 2	S	OUSTR CON
TOTAL	\$	-	5	20,764	S		5		\$	\$ - 3	\$	20,764

Advanced Metering Infrastructure

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2012

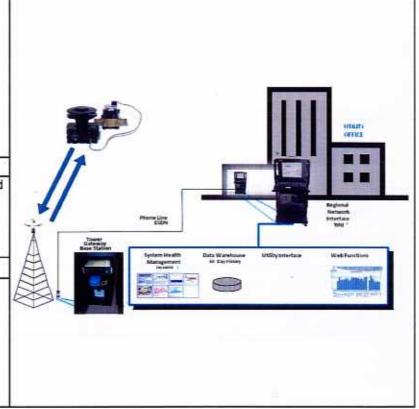
Estimated Date of Completion:

FY 2014

Description:

To provide for better management tools, customer service, consumption accuracy, and operations efficiency. Currently evaluating long term operations and maintenance impacts. While the equipment may have increased cost, there is a potential for significant savings in terms of product, labor, fuel, and maintenance.

Impact on Operating Budget: Will Impact Operating Budget Annual Cost/(Savings) Will Not Impact Operating Budget Personnel 0 Number of Positions Operations 0 Capital 0 Other 0 Total 0



EXPENDITURES	Pric	or Years	- 3	FY 2011	FY 2012		FY 2013		FY 2014		FY 2015	Totals
Construction Services	\$	-	\$	-	\$ -	\$	-	\$	-	\$	- 2	\$ -
Engineering	\$	¥	\$	- 1	\$	\$	1	\$	-	\$	-	\$ 2
Construction / Improvements	\$	- 2	\$	- 1	\$ 1.2	\$	- 12	\$	_	\$	- 2	\$ 2
Equipment	\$	3	\$	-	\$ 500,000	\$1	,500,000	\$1	,500,000	5		\$ 3,500,000
Furnishings	\$	-	\$		\$ 1.5	\$		\$	-	\$		\$ -
Utility Relocation	\$	=	\$	17	\$ 	\$	-	\$	-	\$		\$
TOTAL	\$	+	\$		\$ 500,000	\$1	,500,000	\$1	,500,000	\$	(*)	\$ 3,500,000

REVENUES	Pric	or Years	5	FY 2011	FY 2012	FY 2013		FY 2014	FY 2015	-	Totals
Water Rate Funded Capital	\$	=	\$	#	\$ 500,000	\$1,500,000	\$	1,500,000	\$ 12	\$	3,500,000
Bond Fund	\$	2	5	12	\$	\$ -	5		\$ 	\$	
Taps	\$	2	\$	<u>=</u>	\$ 72	\$ -	\$	2	\$ 72	\$	2
Access	\$	-	\$	-	\$	\$ -	5	-	\$	\$	
SRF Loan - ARRA Forgiveness	\$	-	\$	-	\$	\$ -	\$	-	\$	\$	
TOTAL	\$	-	\$	-	\$ 500,000	\$1,500,000	\$	1,500,000	\$ 	\$	3,500,000

11th Avenue and Park Street Water Line

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2012

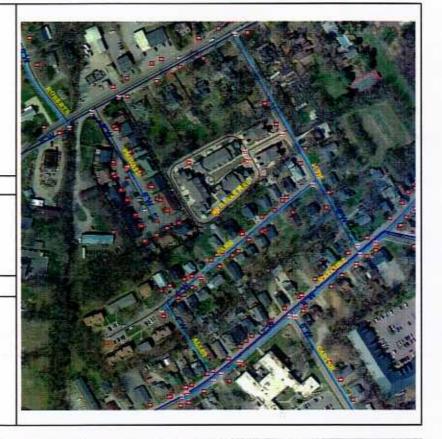
Estimated Date of Completion:

FY 2012

Description:

Project provides for improved pressures and volume to the southern and eastern portions of the service area. Required for long term service and reliability.

Impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	or Years	FY 2011	FY 2012	130	FY 2013	FY 2014	FY 2015	Totals
Construction Services	\$	-	\$	\$ -	\$	-	\$ -	\$	\$ 7
Engineering	\$	=	\$ <u>/₩</u>	\$ 15,000	\$	-	\$ -	\$	\$ 15,000
Construction / Improvements	\$	2	\$ = =	\$ 125,000	\$	= 1	\$ -	\$ · ·	\$ 125,000
Equipment	\$	20	\$ 2	\$ 17-	\$	¥ .	\$ -	\$ -	\$ -
Furnishings	\$	2	\$ <u> </u>	\$ -	\$	- 4	\$ _	\$ 72	\$ ੂ
Utility Relocation	\$	-	\$ 	\$ 	\$	-	\$ 	\$	\$
TOTAL	\$		\$ -	\$ 140,000	\$	-	\$ 	\$ -	\$ 140,000

REVENUES	Pric	or Years	FY 2011	FY 2012	FY 2013	FY 2014		FY 2015	Totals
Water Rate Funded Capital	\$	*	\$	\$ 140,000	\$ 18	\$	\$		\$ 140,000
Bond Fund	\$	-	\$ 	\$ -	\$ 99	\$ ×	5		\$
Taps	\$	-	\$ 22	\$ 723	\$ 12	\$ 2	\$	0.46	\$ 2
Access	\$	2	\$ ~ ~	\$	\$ 2	\$ -	\$	7.20	\$ _
SRF Loan - ARRA Forgiveness	\$	₽.	\$ 2	\$ 74	\$ 	\$ - 1	\$		\$
TOTAL	\$	-	\$ - 5	\$ 140,000	\$	\$ 	\$		\$ 140,000

Project Name: Southeast Corridor Water System

Improvements

Department Division: Water Distribution

Project Number:

Project Fund: Water Access

Estimated Start Date: FY 2008

Estimated Date of Completion: FY 2011

Description:

Import on Operation Budgets

Project provides for improved pressures and volume to the southern and eastern portions of the service area. Required for long term service and reliability.

Impact on	Operating Budget:	
Will Impact Operating Budget	Annual Cost/(Sa	vings)
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	T I	rior Years	FY 2011	FY 2012	5	FY 2013	2	FY 2014	FY 2015	Totals
Construction Services	\$		\$	\$ 7.5	\$		\$	-	\$ 315	\$ -
Engineering	\$	230,655	\$ 4,745	\$ -	\$		\$	-	\$ (**)	\$ 235,400
Construction / Improvements	\$	312,995	\$ 590,180	\$ - ·	\$	-	\$		\$ () (()	\$ 903,175
Equipment	\$	2	\$ -	\$ 8040	\$		\$	- 2	\$ 0.40	\$ -
Furnishings	\$	-	\$ 12	\$ 	\$	- 4	\$		\$	\$ 2
Utility Relocation	\$	4	\$ 2	\$ 1.2	\$	2	\$	0	\$ 110	\$ · ·
TOTAL	\$	543,650	\$ 594,925	\$ -	\$		\$	- 2	\$	\$ 1,138,575

REVENUES	F	rior Years	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	-	Totals
Operations	\$		\$ -	\$ 100	\$ -	\$	\$ 0.70	\$	-
Bond Fund	\$	-	\$	\$ -	\$ *	\$ -	\$	\$	-
Taps	\$	*	\$ -	\$	\$ 	\$ 2.0	\$ 100	S	
Access	\$	543,650	\$ 594,925	\$ -	\$ -	\$ -	\$ 3.40	\$	1,138,575
SRF Loan - ARRA Forgiveness	\$		\$	\$ 	\$ 9	\$ -	\$ 3528	\$	With design of the
TOTAL	\$	543,650	\$ 594,925	\$ 152	\$ 	\$ 	\$ - 2	\$	1,138,575

Downs Boulevard Water Transmission Main

Department Division:

Water Distribution

Project Number:

Project Fund:

Water Access

Estimated Start Date:

FY 2009

Estimated Date of Completion:

FY 2011

Description:

Project provides for improved pressures and volume to the southern and eastern portions of the service area. Required for long term service and reliability.

Impact on	Operating Budget:	
☐ Will Impact Operating Budget	Annual Cost/(Sav	ings)
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
1	Other	0
	Total	0



EXPENDITURES	The state of the	Prior Years	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	3	Totals
Construction Services	\$		\$ 0+1	\$ -	\$ -	\$ -	\$	\$	-
Engineering	\$	275,000	\$	\$	\$ -	\$ - 1	\$ 200	\$	275,000
Construction / Improvements	S	2	\$ 1,978,090	\$ 10.4	\$ 	\$ -	\$ 727	\$	1,978,090
Equipment	\$	24	\$	\$ 72	\$ 5	\$ = (\$ 52	\$	
Furnishings	\$	-	\$ -	\$	\$	\$ - P	\$	\$	
Utility Relocation	\$	-	\$ -	\$ 107.0	\$ -	\$ 	\$ -	\$	
TOTAL	\$	275,000	\$ 1,978,090	\$ 	\$ -	\$ - · · · · ·	\$ -	\$	2,253,090

REVENUES	rior Years	FY 2011	FY 2012	FY 2013	FY 2014		FY 2015		Totals
Operations	\$	\$ -	\$	\$	\$ -	\$		\$	-
Bond Fund	\$ -	\$ -	\$ (34)	\$ -	\$ ¥ }	\$		\$	-
Taps	\$ -	\$	\$ 12 <u>4</u> 2	\$	\$ = 3	5	· ·	\$	-
Access	\$ 275,000	\$ 1,978,090	\$	\$ 2	\$ <u> </u>	\$	-	\$ 2	,253,090
SRF Loan - ARRA Forgiveness	\$ -	\$	\$ 921	\$ 0	\$ U 1	\$	12	\$	
TOTAL	\$ 275,000	\$ 1,978,090	\$ 	\$	\$ 	\$		\$ 2	,253,090

Harpeth River Low Head Dam and Flow

Monitoring Project

Department Division:

Water Treatment

Project Number:

Project Fund:

Water Rate Funded Capital

Estimated Start Date:

FY 2011

Estimated Date of Completion:

FY 2012

Description:

Joint project with Harpeth River Watershed Association to remove existing low head dam and provide for cross veins to provide adequate impoundment for water withdrawal and improve habitat and recreation potential. There is a potential for additional contributions from private entities and state agencies. The project will not affect the City's ability to withdraw water for treatment

☐ Will Impact Operating Budget	Annual Cost/(Savings)	
Will Not Impact Operating Budget	Personnel	0
Number of Positions	Operations	0
	Capital	0
	Other	0
	Total	0



EXPENDITURES	Pric	or Years	S	FY 2011		FY 2012	FY 2013	FY 2014	FY 2015		Totals
Construction Services	\$	1275	\$	-	\$	-	\$ (*)	\$	\$ -	\$	-
Engineering	\$		\$	-	\$	-	\$	\$	\$ -	\$	-
Construction / Improvements	\$	-	\$	500,000	\$	600,000	\$	\$ -	\$ +	\$	1,100,000
Equipment	\$	-	\$	2X (\$4)	\$	0.4	\$ 120	\$ 2	\$ 4	\$	-
Furnishings	\$	20	\$	143	\$	2	\$ - 2	\$	\$ 9	\$	12
Utility Relocation	\$		\$	- 2	5	2	\$ 2.0	\$ - 12	\$ 2	\$	2
TOTAL	\$		\$	500,000	5	600,000	\$ -	\$ -	\$ 	S	1,100,000

REVENUES	Prior Years			FY 2011		FY 2012		FY 2013		FY 2014		FY 2015		Totals	
Water Rate Funded Capital	\$		\$	150,000	\$	600,000	\$		\$	-	\$		\$	750,000	
Bond Fund	\$	-	\$	-	\$	-	\$		\$		\$		\$	-	
Taps	\$	-	\$	(4)	\$	-	\$		\$		\$	#	\$	-	
Access	\$	12	\$	· ·	\$	-	\$	-	5	(#	\$	123	\$	12	
Grant	\$	_	\$	350,000	\$	1	\$		\$	· ·	\$	-	\$	350,000	
TOTAL	\$		\$	500,000	\$	600,000	\$		\$	12	\$	_	\$	1,100,000	